



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

the application of:

John Shigeto Minami et al.

Application No.: 10/822,896

Filed: 4/12/2004

For: METHOD AND APPARATUS FOR  
ACCESSING AND MAINTAINING SOCKET  
CONTROL INFORMATION FOR HIGH SPEED  
NETWORK CONNECTIONS

Group Art Unit: 2186

Examiner: Unassigned

Atty. Docket No.:  
NVIDP342/P001327

Date: December 23, 2004

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, Alexandria, VA 22317-1450 on December 23, 2004.

Signed:

Erica L. Farlow

INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR §§ 1.56 AND 1.97(b)

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

The references listed in the attached PTO Form 1449, copies of which are attached, may be material to examination of the above-identified patent application. Applicants submit these references in compliance with their duty of disclosure pursuant to 37 CFR §§ 1.56 and 1.97. The Examiner is requested to make these references of official record in this application.

This Information Disclosure Statement is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that these references indeed constitute prior art.

This Information Disclosure Statement is believed to be filed before the mailing date of a first Office Action on the merits. Accordingly, it is believed that no fees are due in connection with the filing of this Information Disclosure Statement. However, if it is determined that any fees are due, the Commissioner is hereby authorized to charge such fees to Deposit Account 50-1351 (**Order No. NVIDP342/P001327**).

Respectfully submitted,  
Zilka-Kotab, PC

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<b>Form 1449 (Modified)</b> <b>Information Disclosure Statement By Applicant</b> (Use Several Sheets if Necessary)	Atty. Docket No.	Application No.:
	NVIDP342	10/822,896
	Applicant:	
	John Shigeto Minami et al.	
Filing Date:	Group Art Unit:	
04/12/2004	2186	

#### U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
	A	212,889	3/4/1879	Bridenthal Jr. et al.	n/a	n/a	n/a
	B	4,807,111	2/21/1989	Cohen et al.	364	200	6/16/1987
	C	4,839,851	6/13/1989	Maki	364	900	7/13/1987
	D	5,056,058	10/8/1991	Hirata et al.	364	900	3/5/1990
	E	5,163,131	11/10/1992	Row et al.	395	200	9/8/1989
	F	5,499,353	3/12/1996	Kadlec et al.	395	445	6/20/1995
	G	5,678,060	10/14/1997	Yokoyama et al.	395	831	10/28/1994
	H	5,991,299	11/23/1999	Radogna et al.	370	392	9/11/1997
	I	5,455,599	10/3/1995	Cabral et al.	345	133	4/7/1995
	J	5,544,357	8/6/1996	Huei	395	600	5/26/1995
	K	5,581,686	12/3/1996	Koppolu et al.	395	340	6/6/1995
	L	5,596,702	1/21/1997	Stucka et al.	395	340	4/16/1993
	M	5,621,434	4/15/1997	Marsh	345	145	8/11/1993
	N	5,650,941	7/22/1997	Coelho et al.	364	514	12/29/1995
	O	5,664,162	9/2/1997	Dye	345	521	11/3/1994
	P	5,680,605	10/21/1997	Torres	395	603	2/7/1995
	Q	5,734,852	3/31/1998	Zias et al.	395	334	3/8/1996
	R	5,754,556	5/19/1998	Ramseyer et al.	371	10.3	7/18/1996

#### Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
							Yes	No
	S							

#### Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
	T	Muller, Raimund, "LON-das universelle Netzwerk Elektronik 22-1991
	U	Abbot, Mark B.; Peterson, Larry L., "Increasing Network Throguhput by Integrating Protocol Layers" IEEE 1993
Examiner		Date Considered

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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### U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
	A	5,778,178	7/7/1998	Arunachalam	395	200.33	8/5/1996
	B	5,854,750	12/29/1998	Phillips et al.	364	478.04	9/3/1996
	C	5,870,622	2/6/1999	Gulick et al.	395	800.35	10/10/1997
	D	5,877,764	3/2/1999	Feitelson et al.	345	347	10/23/1992
	E	5,918,051	7/29/1999	Savitzky et al.	395	683	7/19/1995
	F	5,923,892	7/13/1999	Levy	395	800.31	10/27/1997
	G	5,946,487	8/31/1999	Dangelo	395	705	6/10/1996
	H	5,966,534	10/12/1999	Cooke et al.	395	705	6/27/1997
	I	5,968,161	10/19/1999	Southgate	712	37	2/7/1997
	J	6,078,736	6/20/2000	Guccione	395	500.17	8/28/1997
	K	5,485,460	1/16/1996	Schrier et al.	370	94.1	8/19/1994
	L	5,495,480	2/27/1996	Yoshida	370	60	6/21/1994
	M	5,566,170	10/15/1996	Bakke et al.	370	60	12/29/1994
	N	5,577,172	11/19/1996	Vatland et al.	395	114	8/31/1994
	O	5,577,237	11/19/1996	Lin	395	555	1/23/1995
	P	5,598,410	1/28/1997	Stone	370	469	12/29/1994
	Q	5,619,650	4/8/1997	Bach et al.	395	200.01	9/21/1995
	R	5,625,825	4/29/1997	Rostoker et al.	395	730	10/21/1993
	S	5,634,015	5/27/1997	Chang et al.	395	309	10/4/1994
	T	5,636,371	6/3/1997	Yu	395	500	6/7/1995
	U	5,663,951	9/2/1997	Danneels et al.	370	230	6/6/1995

### Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
							Yes	No
	V							

### Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
	W	Wright, Maury, "Low-Cost Control LANs Add Automation to Homes, Autos, and Offices EDN-Technology July 20, 1992
Examiner		Date Considered

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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#### U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
	A	5,687,314	11/11/1997	Osman et al.	395	200	6/9/1992
	B	5,696,899	12/9/1997	Kalwitz	395	200.1	11/18/1992
	C	5,699,350	12/16/1997	Kraslavsky	370	254	10/6/1995
	D	5,701,316	12/23/1997	Alferness et al.	371	53	8/31/1995
	E	5,727,149	3/10/1998	Hirata et al.	395	200.8	12/21/1995
	F	5,802,306	9/1/1998	Hunt	395	200.58	10/31/1995
	G	5,805,816	9/8/1998	Picazo, Jr. et al.	395	200.53	1/28/1997
	H	5,815,516	9/29/1998	Aaker et al.	371	53	4/5/1996
	I	5,826,032	10/20/1998	Finn et al.	395	200.66	2/12/1996
	J	5,872,919	2/16/1999	Wakeland	395	200.6	5/7/1997
	K	5,894,557	4/13/1999	Bade et al.	395	200.58	3/29/1996
	L	5,909,546	6/1/1999	Osborne	395	200.42	3/8/1996
	M	5,920,732	7/6/1999	Riddle	395	876	7/1/1996
	N	5,935,268	8/10/1999	Weaver	714	758	6/3/1997
	O	5,937,169	8/10/1999	Connery et al.	395	200.8	10/29/1997
	P	5,941,988	8/24/1999	Bhagwat et al.	713	201	1/27/1997
	Q	5,943,481	8/24/1999	Wakeland	395	200.6	5/7/1997
	R	5,974,518	10/26/1999	Nogradi	711	173	4/10/1997

#### Foreign Patent or Published Foreign Patent Application

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							Yes	No
	S							

#### Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
	T	Preston, David J., "Internet Protocols Migrate To Silicon For Networking Devices" Electronic Design April 14, 1997
Examiner		Date Considered

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### U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
	A	5,999,974	12/7/1999	Ratcliff et al.	709	224	8/29/1997
	B	6,014,699	1/11/2000	Ratcliff et al.	709	224	8/29/1997
	C	5,012,489	4/30/1991	Burton et al.	375	8	11/7/1998
	D	5,161,193	11/3/1992	Lampson et al.	380	49	6/29/1990
	E	5,307,413	4/26/1994	Denzer	380	49	7/19/1991
	F	5,426,694	6/20/1995	Herbert	379	242	10/8/1993
	G	5,430,727	7/4/1995	Callon	370	85.13	5/19/1994
	H	5,440,551	8/8/1995	Suzuki	370	60	1/4/1994
	I	5,499,353	3/12/1996	Kadlec et al.	395	445	6/20/1995
	J	5,513,324	4/30/1996	Dolin, Jr. et al.	395	200.18	3/7/1994
	K	5,519,704	5/21/1996	Farinacci et al.	370	85.13	4/21/1994
	L	5,546,453	8/13/1996	Herbert	379	242	6/7/1995
	M	5,577,105	11/19/1996	Baum et al.	379	93	3/11/1994
	N	5,625,678	4/29/1997	Blomfield-Brown	379	93	5/24/1995
	O	5,636,371	6/3/1997	Yu	395	500	6/7/1995
	P	5,640,394	6/17/1997	Schrier et al.	370	389	1/16/1996
	Q	5,666,362	9/9/1997	Chen et al.	370	420	7/25/1995
	R	5,675,507	10/7/1997	Bobo, II	364	514	4/28/1995
	S	5,734,865	3/31/1998	Yu	395	500	6/27/1995
	T	5,748,905	5/5/1998	Hauser et al.	395	200.79	8/30/1996

### Foreign Patent or Published Foreign Patent Application

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							Yes	No
	U							

### Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
	V	Chesson, Greg, "The Protocol Engine Project" Technology Focus September 1987
Examiner		Date Considered

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Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
	A	5,754,540	5/19/1998	Liu et al.	370	315	7/18/1995
	B	5,761,281	6/2/1998	Baum et al.	379	93.29	7/30/1996
	C	5,790,546	8/4/1998	Dobbins et al.	370	400	12/4/1995
	D	5,790,676	8/4/1998	Ganesan et al.	380	23	9/23/1997
	E	5,802,287	9/1/1998	Rostoker et al.	395	200.8	8/3/1995
	F	5,802,306	9/1/1998	Hunt	395	200.58	10/31/1995
	G	5,809,235	9/15/1998	Sharma et al.	395	200.6	3/8/1996
	H	5,818,935	10/6/1998	Maa	380	20	3/10/1997
	I	5,870,549	2/9/1996	Bobo, II	395	200.36	10/6/1997
	J	6,034,963	3/7/2000	Minami et al.	370	401	10/31/1996
	K	6,046,980	4/4/2000	Packer	370	230	11/24/1997
	L	6,049,857	4/11/2000	Watkins	711	207	7/23/1998
	M	6,061,368	5/9/2000	Hitzelberger	370	537	11/5/1997
	N	6,061,742	5/9/2000	Stewart et al.	709	250	10/10/1997
	O	6,076,115	6/13/2000	Sambamurthy et al.	709	250	4/24/1997
	P	6,081,846	6/27/2000	Hyder et al.	709	250	5/8/1997
	Q	6,092,110	7/18/2000	Maria et al.	709	225	10/23/1997
	R	6,092,229	7/18/2000	Boyle et al.	714	748	10/9/1996
	S	6,098,188	8/1/2000	Kalmanek, Jr. et al.	714	746	6/30/1995

### Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
	T						Yes	No

### Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
	U	Chesson, Greg, "Proceedings of the Summer 1987 USENIX Conference" USENIX Association June 8-12, 1987
	V	G. Chesson and L. Green, "XTP Protocol Engine VLSI for Real-Time LANS" EFOC/LAN June 29-July 1, 1968
Examiner		Date Considered

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**U.S. Patent Documents**

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
	A	6,101,543	8/8/2000	Alden et al.	709	229	10/25/1996
	B	6,122,670	9/19/2000	Bennet et al.	709	236	10/30/1997
	C	6,151,625	11/21/2000	Swales et al.	709	218	4/30/1999
	D	6,157,955	12/5/2000	Narad et al.	709	228	6/15/1998
	E	6,172,980	1/9/2001	Flanders et al.	370	401	9/11/1997
	F	6,172,990	1/9/2001	Deb et al.	370	474	11/12/1997
	G	6,173,333	1/9/2001	Jolitz et al.	709	240	7/17/1998
	H	6,182,228	1/30/2001	Boden	713	201	8/17/1998
	I	6,185,619	2/6/2001	Joffe et al.	709	229	11/7/1997
	J	6,208,651	3/27/2001	Van Renesse et al.	370	392	6/9/1998
	K	6,226,680	5/1/2001	Boucher et al.	709	230	4/27/1998
	L	6,230,193	5/8/2001	Arunkumar et al.	709	218	10/31/1996
	M	6,233,626	5/15/2001	Swales et al.	710	11	10/6/1998
	N	6,233,626	5/15/2001	Swales et al.	710	11	10/6/1998
	O	6,247,060	6/12/2001	Boucher et al.	709	238	11/12/1999
	P	6,247,068	6/12/2001	Kyle	709	328	8/21/1997
	Q	6,327,625	12/4/2001	Wang et al.	709	235	11/30/1999
	R	6,330,659	12/11/2001	Poff et al.	712	34	11/6/1997
	S	6,341,129	1/22/2002	Schroeder et al.	370	354	4/3/1998

**Foreign Patent or Published Foreign Patent Application**

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							Yes	No
	T							

**Other Documents**

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
	U	Wayner, "Sun Gambles on Java Chops", Bytes, Nov. 1996.
	V	Raz, "Real Time Program Language Accelerator", WO 98/21655, May 1998
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Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
	A	6,345,301	2/5/2002	Burns et al.	709	230	3/30/1999
	B	6,341,129	1/22/2002	Schroeder et al.	370	354	4/3/1998
	C	6,347,347	2/12/2002	Brown et al.	710	23	12/17/1999
	D	6,389,479	5/14/2002	Boucher et al.	709	243	8/28/1998
	E	6,389,537	5/14/2002	Davis et al.	713	187	4/23/1999
	F	6,393,487	5/21/2002	Boucher et al.	709	238	3/12/2001
	G	6,629,141	9/30/2003	Elzur et al.	709	224	7/2/2002
	H	6,397,316	5/28/2002	Fesas, Jr.	711	200	7/24/1997
	I	6,427,169	7/30/2002	Elzur	709	224	7/30/1999
	J	6,430,628	8/6/2002	Conner	710	5	12/8/1998
	K	6,434,620	8/13/2002	Boucher et al.	709	2530	8/27/1999
	L	6,460,080	10/1/2002	Shah et al.	709	224	10/31/2001
	M	6,530,061	3/4/2003	Labatte	714	807	12/23/1999
	N	6,609,225	8/19/2003	Ng	714	781	12/21/2000
	O	2001/0021949	9/13/2001	Blightman et al.	709	219	5/14/2001
	P	2001/0023460	9/20/2001	Boucher et al.	709	250	12/26/2000
	Q	2001/0027496	10/4/2001	Boucher et al.	709	250	3/12/2001
	R	2001/0047433	11/29/2001	Boucher et al.	709	250	2/20/2001
	S	2002/0055993	5/9/2002	Shah et al.	709	223	10/31/2001
	T	2002/0085562	7/4/2002	Hufferd et al.	370	392	12/12/2001

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### Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
	V	Agrawal et al. "Architecture and Design of the Mars Hardware Accelerator", ACM 1987, pp. 101-107.
	W	Case, "Implementing the Java Virtual Machine", Microprocessor Report, Mar. 1996.
Examiner		Date Considered

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Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
	A	2002/0087732	7/4/2002	Boucher et al.	709	250	12/17/2001
	B	200200191844	7/11/2002	Craft et al.	709	230	10/2/2001
	C	2002/0095519	7/18/2002	Philbrick et al.	709	250	2/26/2002
	D	2002/0120899	8/26/2002	Gahan et al.	714	748	7/23/2001
	E	2002/0163888	11/7/2002	Grinfeld	370	235	3/7/2002
	F	2002/0095519	7/18/2002	Philbrick et al.	709	250	2/26/2002
	G	2002/0147839	10/10/2002	Boucher et al.	709	238	3/6/2002
	H	2003/0005142	1/2/2003	Elzur et al.	709	232	7/2/2002
	I	2003/0005143	1/2/2003	Elzur et al.	709	232	7/2/2002
	J	2003/0014544	1/16/2003	Petty	709	249	2/15/2001
	K	2003/0031172	2/13/2003	Grinfeld	370	389	5/30/2002
	L	2003/0016669	1/23/2003	Pfister et al.	370	392	7/12/2001
	M	2003/0046330	3/6/2003	Hayes	709	201	9/4/2001
	N	2003/0046418	3/6/2003	Raval et al.	709	237	8/31/2001

### Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
							Yes	No
	O	WO 01/13583	2/22/2001	WIPO	H04L	12/28	Y	
	P	WO 01/28179	4/19/2001	WIPO	H04L	29/06	Y	
	Q	WO 02/059757	8/1/2002	WIPO	G06F	13/12	Y	
	R	WO 02/086674	10/31/2002	WIPO	H04J	3/22	Y	

### Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
	S	Kitadeya et al., "Matsushita Launches Web TV Internet Connection Terminal", <a href="http://www.mei.co.jp/corp/news/official.data/data.dir/en981112-1/en981112-1.html">http://www.mei.co.jp/corp/news/official.data/data.dir/en981112-1/en981112-1.html</a> , Nov. 1998.
	T	iReady Product Data Sheet, Internet Tuner
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	John Shigeto Minami et al.	
	Filing Date:	Group Art Unit:
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### U.S. Patent Documents

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
	A	2003/0056009	3/20/2003	Mizrachi et al.	709	245	9/6/2002
	B	2003/0058870	3/27/2003	Mizrachi et al.	370	395.52	9/6/2002
	C	2003/0061505	3/27/2003	Sperry et al.	713	200	8/30/2002
	D	2003/0066011	4/3/2003	Oren	714	758	4/11/2002
	E	2003/0084185	5/1/2003	Pinkerton	709	2369	10/30/2001
	F	2003/0095567	5/22/2003	Lo et al.	370	466	11/20/2001
	G	2003/0115350	6/19/2003	Uzrad-Nali et al.	709	231	12/14/2001
	H	2003/0167346	9/4/2003	Craft et al.	709	250	3/7/2001
	I	2003/0115417	6/19/2003	Corrigan	711	118	2/14/2002
	J	2003/0031172	2/13/2003	Grinfeld	370	389	5/30/2002
	K	2003/0128704	7/10/2003	Mizrachi et al.	370	394	8/28/2002
	L	2003/0145101	7/31/2003	Mitchell et al.	709	236	7/8/2002
	M	2003/0145270	7/31/2003	Holt	714	766	1/31/2002
	N	2003/0200284	10/23/2003	Philbrick et al.	709	219	4/14/2003

### Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
							Yes	No
	O	WO 02/39302	5/16/2002	WIPO	G06F	15/16		
	P	WO 03/021443	3/13/2003	WIPO	G06F	11/30		
	Q	WO 03/021447	3/13/2003	WIPO	G06F	12/00		
	R	WO 03/021452	3/13/2003	WIPO	G06F	13/00		
	S	WO 98/50852	11/12/1998	WIPO	G06F	9/38		
	T	WO98/21655	5/22/1998	WIPO	G06F	11/00	X	
	U	WO 99/65219	12/16/1999	WIPO	H04M	11/06		

### Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
	V	Johnson et al. , "Internet Tuner", New Media News, <a href="http://www.newmedianews.com/020197/ts.sub-inettuner.html">http://www.newmedianews.com/020197/ts.sub-inettuner.html</a> , Jan. 1997.
	W	Kelly, T., "Cheap Internet Hardware that Fits in Everything", ZDNet, <a href="http://www.zdnet.co.uk/news/1998/44/ns-5998.html">http://www.zdnet.co.uk/news/1998/44/ns-5998.html</a> , Nov. 1998
Examiner		Date Considered

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
	A						
	B						

#### Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
							Yes	No
	C	AU 0070603	3/13/2001	AU	H04L	12/28		
	D	AU0228874	5/21/2002	AU	G06F	15/16		
	E	AU 723724	9/7/2000	AU	H04J	3/16		
	F	AU 734115	6/7/2001	AU	G06F	9/38		
	G	AU 0741089	11/22/2001	AU	H04M	11/06		
	H	AU 4435999	12/30/1999	AU	H04M	11/06		
	I	AU 4595297	5/22/1998	AU	H04J	3/16		
	J	AU 7364898	11/27/1998	AU	G06F	9/38		
	K	CA 2265692AA	5/7/1998	CA	H04J	3/16		N
	L	CA 2265692C	8/7/2001	CA	H04J	3/16		N
	M	CA 2287413AA	11/12/1998	CA	G06F	9/38		N
	N	CA 2328829AA	12/16/1999	CA	H04M	11/06	Y	
	O	CN 1237295A	12/1/1999	CN	H04J	3/16	Y	
	P	CN 1266512T	9/13/2000	CN	G06F	9/38	Y	
	Q	CN 1305681T	7/25/2001	CN	H04M	11/6	Y	

#### Other Documents

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
	R	8802-3:2000 ISO/IEC Information Technology, <a href="http://www.computer.org/cspress/CATALOG/st01118.htm">http://www.computer.org/cspress/CATALOG/st01118.htm</a>
	S	INCITS: Development work conducted in t10-I/O Interface-Lower Level   September 30, 2002 Weber, Ralph O.
Examiner		Date Considered

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**U.S. Patent Documents**

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
	A						

**Foreign Patent or Published Foreign Patent Application**

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
							Yes	No
	B	TW 447205B	7/21/2001	TW	H04L	29/06		
	C	TW 448407B	8/1/2001	TW	G06F	9/45		
	D							

**Other Documents**

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
	E	Stevens, Richard W., "TCP/IP Illustrated Volume" Addison-Wesley Professional Computing Series
	F	Abbot, Mark B., and Peterson, Larry L., "Increasing Network Throughput by Integrating Protocol Layers" IEEE 1993
	G	Wright, Maury, "Low-Cost Control LANs Add Automation to Homes, Autos, and Offices" EDN July 20, 1992
	H	Preston, David J., "Internet Protocols Migrate to Silicon For Networking Devices" Electronic Design April 14, 1997
	I	Muller, Raimund, "LON – das universelle Netzwerk" Elektronik 22/1991
	J	Rang, Michael; Tantawy, Ahmed, "A Design Methodology for Protocol Processors" IEEE 1995
Examiner		Date Considered

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**U.S. Patent Documents**

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
	A						

**Foreign Patent or Published Foreign Patent Application**

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
							Yes	No
	B							

**Other Documents**

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
	C	Banks, David and Prudence, Michael, "A High-Performance Network Architecture for a PA-RISC Workstation" IEEE Journal Vol. II, No. 22 February 1993
	D	Steenkiste, Peter, "A High-Speed Network Interface for Distributed-Memory Systems: Architecture and Applications" ACM Transactions on Computer Systems, Vol. 15, No. 1 February 1997
	E	Doumenis, Gr.A., Konstantoulakis, G.E., Reisis, D.I. and Stassinopoulos, G.I. "A Personal Computer Hosted Terminal Adapter For The Broadband Integrated Services Digital Network and Applications" National Technical University of Athens, Greece
	F	Womack, Lucas; Mraz, Ronald; Mendelson, Abraham, "A Study of Virtual Memory MTU Reassembly withing the PowerPC Architecture" IEEE 1997
	G	Steenkiste, Peter, "A Systematic Approach to Host Interface Design for High-Speed Networks" IEEE March 1994
	H	Wittie, Larry D., Ma, Fanyuan, "A TCP/IP Communication Subsystem in Micros" IEEE 1987
Examiner		
Date Considered		

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>Form 1449 (Modified)</b>  <b>Information Disclosure Statement By Applicant</b>  (Use Several Sheets if Necessary)	Atty. Docket No.	Application No.:
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**U.S. Patent Documents**

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
	A						

**Foreign Patent or Published Foreign Patent Application**

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
							Yes	No
	B							

**Other Documents**

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
	C	Dalton, Chris; Watson, Greg; Banks, David; Calamvokis, Costas; Edwards, Aled; Lumley, John, "Afterburner: A Network-independent card provides architectural support for high-performance protocols" IEEE July 1993
	D	Gupta, Pankaj; McKeown, Nick, "Algorithms for Packet Classification" IEEE Network March/April 2001
	E	Clark, David D.; Romkey, John; Salwen, Howard, "An Analysis of TCP Processing Overhead" IEEE 1988
	F	Clark, David D.; Jacobson, Van; Romkey, John; Salwen, Howard, "An Analysis of TCP Processing Overhead" IEEE June 1989
	G	Goloi, W.K.; Behr, P. "An IPC Protocol and Its Hardware Realization For A High-Speed Distributed Multicomputer System" IEEE 1981
	H	Ames, Richard, "Building an Embedded Web Server from Scratch" Circuit Cellar INK February 1998
	I	Legg, John, "Choosing and implementing an embedded TCP/IP Stack" Electronic Product Design January 1999
Examiner		Date Considered

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>Form 1449 (Modified)</b>  <b>Information Disclosure Statement By Applicant</b>  (Use Several Sheets if Necessary)	Atty. Docket No.	Application No.:
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**U.S. Patent Documents**

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	A						

**Foreign Patent or Published Foreign Patent Application**

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
							Yes	No
	B							

**Other Documents**

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
	B	Orphanos, George; Birbas, Alexios; Petrellis, Nikos; Mountzouris, Ioannis; Malataras, Andreas, "Compensating for Moderate Effective Throughput at the Desktop" IEEE Communication Magazine April 2000
	C	Yocum, Kenneth G.; Chase, Jeffrey S.; Gallatin, Andrew J.; Lebeck, Alvin R., "Cut-Through Delivery in Trapeze: An Exercise in Low-Latency Messaging" IEEE 1997
	D	Varada, S.; Yang, Y.; Evans, D., "Data and Buffer Management in ATM Systems" TranSwitch Corporation
	E	Bonjour, Dominique; de Hauteclouque, Gaelle; le Moal, Jacques, "Design and Application of ATM LAN/WAN Adapters" IEEE 1998
	F	Kim, Chan; Jun, Jong-Jun; Park, Yeong-Ho; Lee, Kyu-Ho; Kim, Hyup-Jong, "Design and Implementation of a High-Speed ATM Host Interface Controller" Electronics and Telecommunications Research Institute, Korea
	G	Steenkiste, Peter, "Design, Implementation, and evaluation of a Single-copy Protocol Stack" Software – Practice and Experience, Vol. 28, June 1998
Examiner		Date Considered

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



<b>Form 1449 (Modified)</b>  <b>Information Disclosure Statement By Applicant</b>  (Use Several Sheets if Necessary)	Atty. Docket No.	Application No.:
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**U.S. Patent Documents**

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub- class	Filing Date
	A						

**Foreign Patent or Published Foreign Patent Application**

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub- class	Translation	
							Yes	No
	B							

**Other Documents**

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
	C	Meleis, Hanafy E.; Serpanos, Dimitrios, N., "Designing Communication Subsystems for High-Speed Networks" IEEE Network July 1992
	D	Doumenis, Gr. A.; Reisis, D.I.; Stassinopoulos, G.I., "Efficient Implementation of the SAR Sublayer and the ATM Layer in High-Speed Broadband ISDN Data Terminal Adapters" IEEE 1993
	E	Mora, F.; Sebastia, A., "Electronic Design of a High Performance Interfacce to the SCI Network" IEEE 1998
	F	Eady, Fred, "Embedded Internet Part 2: TCP/IP and a 16-Bit Compiler" Embedded PC June 1999
	G	Shivam, Piyush; Wyckoff, Pete; Panda, Dhabaleswar, "EMP: Zero-copy OS-bypass NIC-driven Gigabit Ethernet" SC2001 November 2001, Denver CO, USA
	H	Mansour, Mohammad; Kayssi, Ayman, "FPGA-Based Internet Protocol Version 6 Router" IEEE 1998
	I	Smith, Jonathon M.; Traw, C. Brendan S., "Giving Applications Access to Gb/s Networking" IEEE Network July 1993
Examiner		
Date Considered		

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	A						

**Foreign Patent or Published Foreign Patent Application**

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
							Yes	No
	B							

**Other Documents**

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
	C	Traw, C. Brendan S.; Smith, Jonathan M., "Hardware/Software Organization of a High-Performance ATM Host Interface" IEEE 1993
	D	Nagata, Takahiko; Hosoda, Yamashita, Hiroyuki, "High-Performance TCP/IP/ATM Communication Board" NTT Information and Communication Systems Laboratories 1998
	E	Nagata, Takahiko; Hosoda, Yasuhiro; Yamahsita, Hiroyuki, "High-Performance TCP/IP/ATM Communication Boards:Driving Force for Various Multimedia Services" Vol. 9 No. 6 November 1997
	F	Jolitz, William Frederick, "High-Speed Networking: Header prediction and forward-error correction for very high-speed data transfer" Dr. Dobbs Journal, August 1992
	G	Chiswell, Dave "Implementation Challenges for 155Mbit ATM Adapters" ISBN# 0-7803-2636-9
	H	Wright, Maury "Intelligent Ethernet Boards" EDN June 23, 1988
Examiner		Date Considered

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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							Yes	No
	B							

**Other Documents**

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
	C	Preston, David " Intetnet Protocols Migrate to Silicon For Networking Devices" Electronic Design April 14, 1997
	D	Ivanov-Loshkanov, V.S.; Sevast'yanov, S.F., Semenov, M.N., "Network Microprocessor Adapter" Avtmatika i Vyshislitel'naya Tekhnika Vol. 17 No. 5 pp. 25-28, 1983
	E	Druschel, Peter; Abbot, Mark B.; Pagels, Michael A.; Peterson, Larry L., "Network Subsystem Design" IEEE Network July 1993
	F	Huange, Jau-Hsiung; Chen, Chi-Wen, "On Performance Measurments of TCP/IP and its Device Driver" IEEE 1992
	G	Siegel, Martin; Williams, Mark; Robler, Georg, "Overcoming Bottlenecks in High-Speed Transport Systems" IEEE 1991
	H	Neufeld, Gerald W.; Ito, Mabo Robert; Goldberg, Murray; McCutcheon, Mark J.; Ritchie, Stuart, "Paralleel Host Interface for an ATM Network" IEEE Network July 1993
	I	Maly, K.; Khanna, K.; Kukkamala, R.; Overstreet C.M.; Yerraballi, R.; Foundriat, E.C.; Madan, B., "Parallel TCP/IP For Multiprocessor Workstations" High Performance Networking, IV, 1993 IFIP
Examiner		Date Considered

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**Foreign Patent or Published Foreign Patent Application**

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
							Yes	No
	B							

**Other Documents**

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
	C	Laskman, T.V.; Madhow, U., "Performance Analysis of Window-based Flow Control using TCP/IP:Effect of High Bandwidth Delay Products and Random Loss" High Performance Networking V. 1994 IFIP
	D	Ramakrishnan, K.K., "Performance Considerations in Designing Network Interfaces" IEEE Journal 1993
	E	Camarda, P.; Pipio, F.; Piscitelli, G.; "Performance evaluating of TCP/IP implementations in end systems" IEE Proc-Computer Digital Tech. Vol. 146 No. 1 January 1999
	F	Toyoshima, Kan; Shirakawa, Kazuhiro; Hayashi, Kazuhiro, "Programmable ATM Adapter: Rapid Prototyping of Cell Processing Equipment for ATM Network" IEEE 1997
	G	Blumrich, Matthias A.; Dubnicku, Cezary; Felton, Edward W.; Li, Kai, "Protected, User-level DMA for the SHRIMP Network Interface" IEEE 1996
	H	Feldmeier, David C.; McAuley, Anthony J.; Smith, Jonathan M.; Bakin, Deborah S.; Marcus, William S.; Raleigh, Thomas M., "Protocol Boosters" IEEE 1998
Examiner		Date Considered

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>Form 1449 (Modified)</b>  <b>Information Disclosure Statement By Applicant</b>  (Use Several Sheets if Necessary)	Atty. Docket No.	Application No.:
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	A						

**Foreign Patent or Published Foreign Patent Application**

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
							Yes	No
	B							

**Other Documents**

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
	C	Marcus, William S.; Hadzic, Ilija; McAuley, Anthony J.; Smith, Jonathan M., "Protocol Boosters: Applying Programmability to Network Infrastructures" IEEE Communications Magazine October 1998
	D	Korablum, Deborah F., "Protocol Implementation and Other Performance Issues for Local and Metropolitan Area Networks" EEE 1988
	E	Dittia, Zubin D.; Parulkar, Guru M.; Jr., Jerome R. Cox, "The APIC Approach to High Performance Network Interface Design: Protect4ed DMA and Other Techniques" IEEE 1997
	F	Rutsche, Erich, "The Architecture of a Gb/s Multimedia Protocol Adapter" ACM SIGCOMM Computer Communication Review
	G	Moldeklev, Kjersti; Klovning, Espen; Kure, Oivind, "The effect of end system hardware and software on TCP/IP throughput performance over a local ATM Network"
	H	Kanakia, Hermant; Cheriton, David R., "The VMP Network Adapter Board (NAB) High Performance Network Communication for Multiprocessors" ACM 1988
Examiner		Date Considered

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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							Yes	No
	B							

**Other Documents**

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
	C	Chandrammenon, Grish P.; Varghese, George, "Trading Packet Headers for Packet Processing" IEEE 1996
	D	Nielson, Dr. Michael J.K., "TURBOchannel" IEEE 1991
	E	New Media News, <a href="http://www.newmedianews.com/02197/ts_inettuner.html">www.newmedianews.com/02197/ts_inettuner.html</a>
	F	Kelly, T. "Cheap Internet Hardware that Fits in Everything" ZDNet, <a href="http://www.zdnet.co.uk/news/1998/77/ns-5998.html">www.zdnet.co.uk/news/1998/77/ns-5998.html</a>
	G	Kitadeya et al. "Matsushita Launches WebTV Internet Connection Terminal" <a href="http://www.mei.co.jp/corp/news/official.data.dir/en981112-1/en981112-1.html">www.mei.co.jp/corp/news/official.data.dir/en981112-1/en981112-1.html</a>
	H	eady Product Data Sheet, Internet Tuner
	I	Luijten, Ronald P., "An OC-12 ATM Switch Adapter Chipset" 1998 IEEE
		"Less-Numerical Algorithms", Ch. 20 p. 888-895
		"Storage Networking Industry Association" iSCSI Building Blocks for IP Storage Networking, <a href="http://www.ipstorage.org">www.ipstorage.org</a>
Examiner		Date Considered

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.